

NON-CONTACT IC CARD

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Inventor: OZEKI MINORU; HAKUTA TATSUO; IIDA MASAYOSHI; MIYAI SEIICHI
Applicant: SONY CORP
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Abstract of JP2000048153

PROBLEM TO BE SOLVED: To provide a non-contact IC card which can be manufactured so as to be made thin as a whole in a simplified manufacturing process, and to reduce the change of resonance frequencies due to the moisture absorption of the card. **SOLUTION:** An information signal from a writing and reading control unit provided at the entrance and exit gate of a pay road is received through an antenna circuit 1 in a non-contact state, and the settlement calculation of a traffic fee is executed by an IC circuit 2 based on the inputted information signal, and the arithmetic result is recorded in the IC circuit 2, and supplied to the writing and reading control unit so that the settlement processing of the fee can be attained. The antenna circuit 1, tuning capacitor 3, and IC circuit 2 are all mounted on the surface of a non-contact IC card 5. Thus, a through-hole connection is unnecessary so that the manufacturing process can be simplified, and it is not necessary to operate the formation of a resin layer and the adhesion of a label on the back face of the non-contact IC card 5 so that the whole part of the non-contact IC card can be made compact and thin. Even when the card is turned into a moisture absorbing state, the capacitor of the chip type tuning capacitor 3 can be made constant, the change of resonance frequencies can be reduced, moisture resistance can be made excellent, and a highly precise non-contact calculating operation can be attained.

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